

(INNER WHEEL FIXED TO R)

(INNER WHEEL NOT FIXED TO R)

F I G . 2

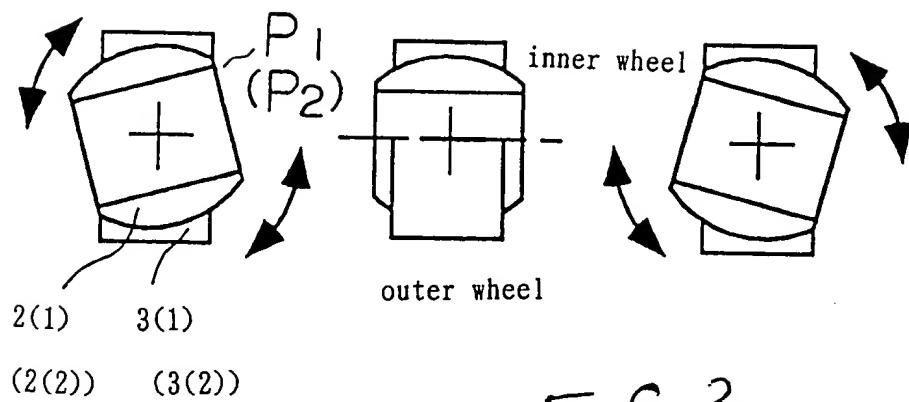
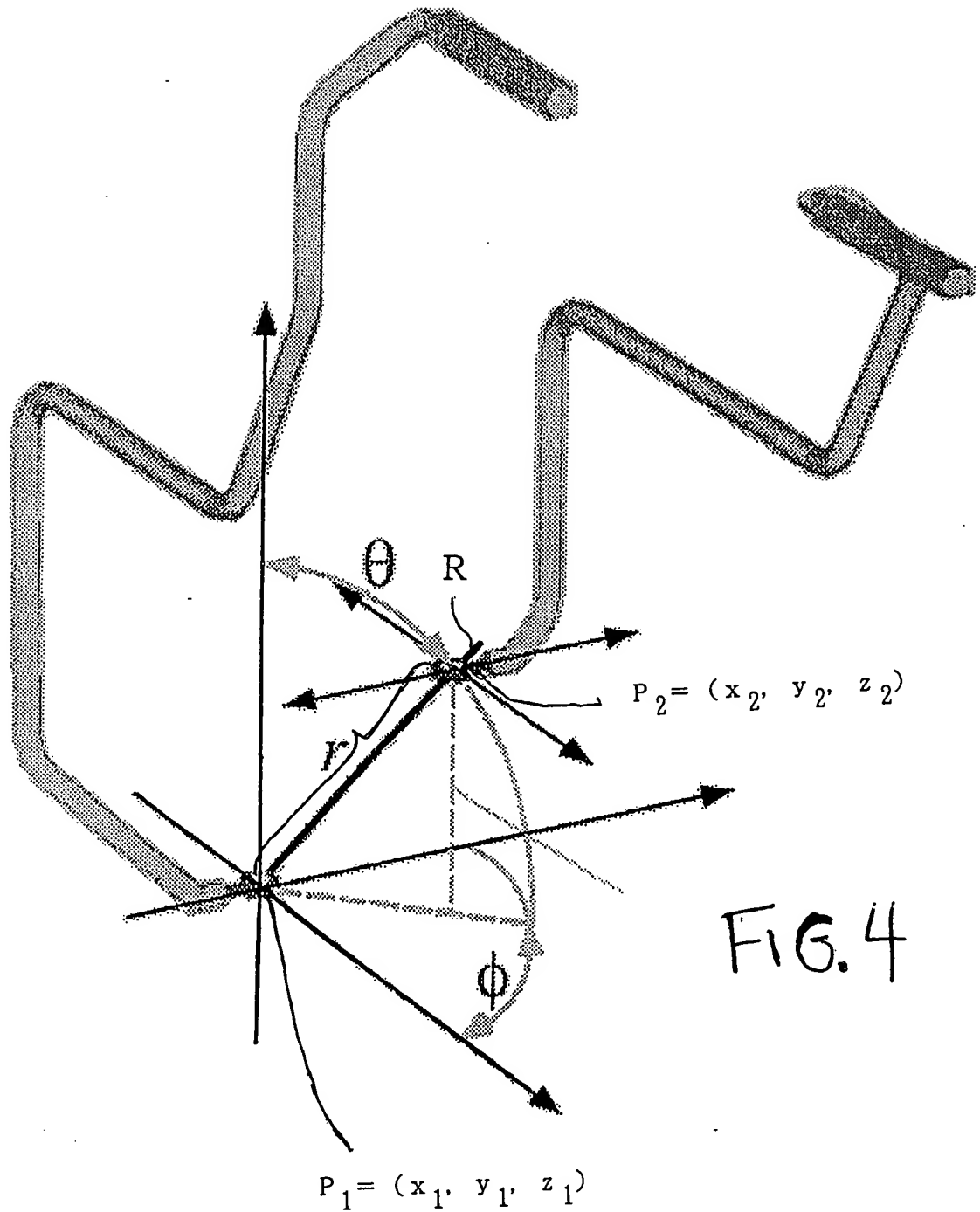


FIG. 3



$$x' = x_2 - x_1$$

$$y' = y_2 - y_1$$

$$z' = z_2 - z_1$$

$$r^2 = x'^2 + y'^2 + z'^2$$